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If you are looking for a cost-effective datacenter solution along with server virtualization, then you need not look further. With latest innovations and modifications, many companies have come up with unique product offerings that bring together all the elements of a successful cloud in an integrated solution with compatible hardware, software and storage.

While looking for private cloud, users usually look for security and exclusivity which should be economical too. Some may opine that public cloud is a better option since it is cost effective as well as secured. However, by going with the right personal cloud architecture you can benefit in more than one way. There are many solutions available in the market which offers the flexibility of connecting your network storage device to other computers and/or devices via the Internet. Here is an overview of several advantages of having a personal cloud infrastructure:-

â€¢ Reduce IT costs: Server virtualization helps in server consolidation. This can prove to be helpful for organizations which can reap the benefit by shrinking their number of overall servers. When you consider a large organization setup, server consolidation will result in lower power consumption and management costs. The end result is a greener IT environment!

â€¢ Increase IT Flexibility: Virtualization offers datacenters the flexibility to meet constantly evolving IT requirements. This helps in reducing the amount of time usually taken for IT to respond to user needs.

â€¢ Improvement in peak server performance: This is possible by optimizing the location of server workloads while enhancing server readiness within resource pools. This makes sure that application requirements and expected performance levels are always met. This in turn results in acceleration of the speed of delivering new applications into production.

â€¢ Reduction in Server Downtime: It is possible to get rid of planned downtime, thus reducing the impact of failures. An ever ready virtual infrastructure protects against disasters always. Hence server and application upgrades can be performed within normal business hours without disruptions. This in turn helps in improvement of user productivity thus saving money and valuable man hours.

Apart from these, any home based small businesses can also immensely benefit from private cloud setup.

â€¢ Sharing of large files like video, audio or graphic art files can be done easily and quite faster too. This ensures confidentiality and safety which canâ€™t be guaranteed with the e-mail system.

â€¢ The private cloud storage offers redundancy at every level i.e., hard drive, server and datacenter. Hence you can be sure of far more safety of your confidential files than any localized storage. You need not worry about your important data getting lost due to any disaster like theft, fire or due to software problems and/or hardware failure.

â€¢ Once the system is installed you need not worry about its maintenance. You may have to handle the management of user accounts but major responsibilities like array maintenance and monitoring data storage just simply go away.

â€¢ The dedicated cloud solution ensures a very efficient data backup solution. Storing a copy of your

data in an offsite location implies that you will be able to access that backup in case of unavailability of the local backup. This remote backup process runs in the background after business hours so your work doesnâ€™t get affected.

While deciding on the private cloud setup, always evaluate several options. The fact that so many service providers are available in the market with quality solutions, users can get confused easily. Do consult an expert if you are not very confident about the right choice.

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